

Claims

1. Method for the decoding and/or detection of data, containing user information, that was received via the communications network,

5

characterized in that

a communications terminal receiver (5) and a Cellular Text Telephone Modem receiver (6) exchange at least one piece of additional information concerning the reliability of the correct reception of the data, and an error handling of the received data is modified on the basis of this in a receiver (5, 6).

10

2. Method according to Claim 1,

15

characterized in that

the error concealment in the voice decoder (2) is suppressed as a means of modifying the error handling.

20

3. Method according to Claim 2,

characterized in that

a Cellular Text Telephone Modem text/voice indicator, that indicates that the data is Cellular Text Telephone Modem text data, is sent to the voice decoder (2) of the communications terminal receiver (5) in order to suppress the error concealment.

25

30 4. Method according to one of the preceding Claims,

characterized in that

the error correction in the error-correction module (4) is modified
5 as a means of modifying the error handling.

5. Method according to one of the preceding Claims,

characterized in that

10 a cellular mobile communications network is used as the
communications network.

6. Method according to one of the preceding Claims,

15 characterized in that

the communications terminal receiver (5) is a receiver in a cellular
radio terminal.

20 7. Method according to one of the preceding Claims

characterized in that

25 at the end of the Cellular Text Telephone Modem text transmission,
the Cellular Text Telephone Modem text/voice indicator is set to a
value that indicates that the subsequently received data now
contains voice information.

30 8. Method according to one of the preceding Claims,

characterized in that

the communications terminal receiver (5) is an Adaptive Multi-Rate receiver.

5 9. Method according to one of the preceding Claims,
characterized in that

10 at least one piece of additional information is added by the
communications terminal receiver (5) to the received data.

10. Method according to one of the preceding Claims,
characterized in that

15 at least one piece of additional information concerning the data to
be transmitted is forwarded by the communications terminal receiver
(5) to the Cellular Text Telephone Modem receiver (6) for
controlling the error correction of the data.

20 11. Method according to one of the Claims 5-10,
characterized in that

25 the Bad Frame Indicator and/or Adaptive Multi-Rate mode additional
information is exchanged between the communications terminal
receiver (5) and a Cellular Text Telephone Modem receiver (6).

30 12. Method according to one of the preceding Claims,
characterized in that

AMENDED SHEET

AMENDED SHEET

at least one piece of information concerning the data to be transmitted is exchanged in unused bits of the data.

5 13.Method according to one of the preceding Claims,

characterized in that

10 the additional information received by the Cellular Text Telephone Modem receiver (6) is used for error correction of the data.

14.Method according to one of the preceding Claims,

characterized in that

15 a reliability measure concerning the quality of the cellular radio transmission and/or the demodulation and/or decoding of the user data is calculated by the Cellular Text Telephone Modem receiver (6) from the sound quality of the channel decoder (1) and the data rate
20 of the voice decoder (2).

15.Method according to Claim 14,

characterized in that

25 this reliability measure is used in the error correction of the user information in the Cellular Text Telephone Modem receiver (6).

16.Method according to one of the preceding Claims,

characterized in that

the user information consists of text, voice signals, image signals and/or video signals.

5

17. Device for the decoding and/or detection of data, containing user information, that was received via the communications network,

10 having a channel decoder (1) in a communications terminal receiver (5) for the analysis and at least partial correction of the received data and for forwarding this to a voice decoder (2),
having a voice decoder (2) for decoding the data using error concealment, where it is required, and for forwarding the user information to its Cellular Text Telephone Modem receiver (6),
15 having a demodulator (3) in the Cellular Text Telephone Modem receiver (6) for the demodulation and for forwarding this data with the reliability information to an error-correction module (4),
having an error-correction module (4) for scanning the received user information for a sequence, in order to set in a Cellular Text
20 Telephone Modem text/voice indicator, when the sequence is successfully detected, a value that indicates that the data is Cellular Text Telephone Modem data, for modifying the error correction and for forwarding the set Cellular Text Telephone Modem text/voice indicator to the voice decoder (2) in order to suppress
25 the error concealment in the voice decoder (2).

18. Device according to Claim 17,

10
41

having an error-correction module (4) for error correction of the data containing the user information.

5 19. Device according to one of the preceding Claims,

characterized in that

10 a voice decoder (2) is used for forwarding a pulse code modulation signal.

APR 30 2006

AMENDED SHEET